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TAWARA YASUKO****(54) METHOD FOR STERILIZATION OF RECYCLED WATER****(57) Abstract:**

PURPOSE: To obtain a recycled water sterilized without using chlorine component so that a generation of hazardous substance is avoided and the sterilization is carried out economically and in a good environmental sanitation by adding a substance selected from copper, cuprous oxide, etc., to the water after treated with an active sludge.

CONSTITUTION: Organic substances in a water to be treated are aerated with an active sludge in the

presence of sufficient oxygen by supplying air. A recycled water as an intermediate water is obtained by adding a single substance such as Cu, Cu₂O and Ag₂O or a mixture of them as a sterilizing agent to the water treated as mentioned above and separated from the sludge. The aforementioned single substance such as Cu, Cu₂O and Ag₂O or the mixture of them is usable as the sterilizing agent either in powder form or moldings of reticulated structure, etc., thereby such a constitution, that a solid-liquid separation caused by the sterilization can be made needless, is preferred.

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